

GREEN HIGHWAY ECOLOGY AND ECOSYSTEM PRESERVATION AND RESTORATION

MUDATHIR OMER ADAM ARBAB

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DEDICATION

To the memory of my parents
To my beloved wife who paints a picture
of love in my heart every day
Thank you for all love and motivation
I love you today, tomorrow and forever

HASANAT IBRAHIM

And my beloved children who silently endured many
hours I spent away from them to complete this work.

ISRA MUDATHIR
OMER MUDATHIR
IKRAM MUDATHIR
JAILANI MUDATHI

Thanks for supporting me days and night, until I reached to this level, may
ALLAH bless you all.

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Mudathir Omer Adam arabab

ABSTRACT

The issues of green highway is very important for the future generations, there are several tools lacking in the green evaluation of infrastructure projects. Many of the tools available for green evaluation lacking the ecological and ecosystem preservation and restoration issues. Today's thinking on the environmental issue become one of the significant issue worldwide that can not be neglected because of its important in improving the quality of life and ecosystem. The aim of this study is to address the problem related to the ecology and ecosystem for the green highway. The data for this research were obtained through focus experts group discussion, set of questionnaires and interviewing target respondents and professionals, such as engineer and architect that have been involved in highway projects. The data collected were analysed using Statistical Packages for Social Science (SPSS) version 18.00. From the SPSS, the results of Frequency analysis and Average Index is tabulated in order to indicate the level of 22 variable an agreement level of respondent for all question in all section. The findings of this study identified the criteria of green highway that can be use in Malaysia green highway and other part of the world. The results show that elements which have been identified will serve as a basis for the development of an assessment model for Malaysia green highway.

ABSTRAK

Isu lebuhraya hijau adalah sangat penting untuk generasi pada masa hadapan dan didapati terdapat masalah kekurangan alat panduan dalam pembangunan projek hijau infrastruktur masa kini. Banyak alat yang tersedia ada menitikberatkan pembangunan hijau, tetapi ianya tidak memfokuskan tentang isu-isu pemeliharaan dan pemulihan ekologi dan juga ekosistem. Dewasa ini, pemikiran mengenai isu alam sekitar menjadi salah satu isu penting di seluruh dunia yang tidak boleh diabaikan kerana ianya penting dalam meningkatkan kualiti hidup ekosistem. Tujuan kajian ini adalah untuk menangani masalah yang berkaitan dengan ekologi dan ekosistem di lebuhraya Malaysia. Oleh itu, data bagi kajian ini telah diperolehi melalui perbincangan bersama sekumpulan pakar, soal selidik dan temuduga. Responden sasaran dalam kajian ini adalah jurutera, arkitek, dan perunding projek yang berpengalaman dalam projek-projek lebuhraya. Data yang dikumpul telah dianalisis dengan menggunakan Pakej Statistik untuk versi (SPSS) 18,00. Keputusan analisis frekuensi dan indeks purata diperolehi melalui analisa SPSS bagi 22 pemboleh ubah dalam kesemua soalan. Konklusinya, elemen yang bersesuaian dengan Lebuhraya di Malaysia dihasilkan dalam kajian ini untuk menyumbang kepada lebuhraya hijau.